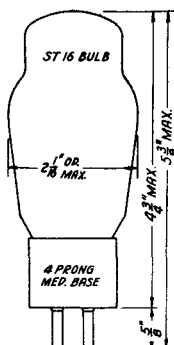


2A3 2A3H

RAYTHEON

2A3 2A3H



TRIODE
POWER AMPLIFIER
Glass Bulb
Filament Type-2A3 Heater Type-2A3H

The 2A3 and 2A3H are triode type power amplifier tubes designed for service in the output stage of a-c operated receivers.

RATINGS

2A3		
Fil. Voltage (a-c or d-c)	2.5	volts
Fil. Current	2.5	amp
2A3H		
Heater Voltage (a-c or d-c)	2.5	volts
Heater Current	2.8	amp

AMPLIFIER - CLASS A

Plate Voltage	250 max.	volts
Grid Bias*	-45	volts
Amplification Factor	4.2	
Plate Resistance	800	ohms
Transconductance	5250	μmhos
Plate Current	60	ma
Load Resistance	2500	ohms
Power Output (5% second harmonic)	3.5	watts

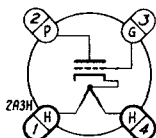
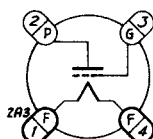
AMPLIFIER - CLASS AB - PUSH-PULL - TWO TUBES

	Fixed-Bias	Self-Bias
Plate Voltage	300 max.	300 max. volts
Grid Bias*	-62	volts
Self-Bias Resistor		780 ohms
No-Signal Plate Current (per tube)	40	40 ma
Load Resistance (plate to plate)	3000	5000 ohms
Total Harmonic Distortion	2.5	5 percent
Power Output	15	10 watts

The self-bias resistor for a single tube should be approximately 750 ohms. In either single tube or push-pull operation, the self-bias resistor should be shunted by a suitable filter network to minimize grid bias changes due to current surges through the resistor.

Transformer or impedance input systems are recommended. If resistance coupling is used, the d-c resistance in the grid circuit should not exceed 0.5 megohm with self-bias or 0.05 megohm with fixed-bias.

*2A3 Grid bias measured from mid-point of a-c operated filament.



BOTTOM VIEWS OF SOCKETS
2A3H: CATHODE CONNECTED
INT. TO MID-POINT OF HEATER

For characteristic curves refer to the types 6A3 and 6B4G. The characteristics of the 2A3 are the same as those of the 6A3 and the 6B4G except for the filament rating.